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MAY 29 2002

TECH CENTER 1600/2900

SEQUENCE LISTING

<110> GUEGLER, Karl et al

<120> ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
THEREOF

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<141> 2000-12-07

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E1
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<210> 4
 <211> 463
 <212> PRT
 <213> Human

E'
cont.

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          20          25          30
Ile Trp Ser Leu Ala Cys Ile Leu Tyr Glu Met Cys Cys Met Asn His
          35          40          45
Ala Phe Ala Gly Ser Asn Phe Leu Ser Ile Val Leu Lys Ile Val Glu
          50          55          60
Gly Asp Thr Pro Ser Leu Pro Glu Arg Tyr Pro Lys Glu Leu Asn Ala
          65          70          75          80
Ile Met Glu Ser Met Leu Asn Lys Asn Pro Ser Leu Arg Pro Ser Ala
          85          90          95
Ile Glu Ile Leu Lys Ile Pro Tyr Leu Asp Glu Gln Leu Gln Asn Leu
          100          105          110
Met Cys Arg Tyr Ser Glu Met Thr Leu Glu Asp Lys Asn Leu Asp Cys
          115          120          125
Gln Lys Glu Ala Ala His Ile Ile Asn Ala Met Gln Lys Arg Ile His
          130          135          140
Leu Gln Thr Leu Arg Ala Leu Ser Glu Val Gln Lys Met Thr Pro Arg
          145          150          155          160
Glu Arg Met Arg Leu Arg Lys Leu Gln Ala Ala Asp Glu Lys Ala Arg
          165          170          175
Lys Leu Lys Lys Ile Val Glu Glu Lys Tyr Glu Glu Asn Ser Lys Arg
          180          185          190
Met Gln Glu Leu Arg Ser Arg Asn Phe Gln Gln Leu Ser Val Asp Val
          195          200          205
Leu His Glu Lys Thr His Leu Lys Gly Met Glu Glu Lys Glu Glu Gln
          210          215          220

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Pro Glu Gly Arg Leu Ser Cys Ser Pro Gln Asp Glu Asp Glu Glu Arg
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 Trp Gln Gly Arg Glu Glu Ser Asp Glu Pro Thr Leu Glu Asn Leu
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 Pro Glu Ser Gln Pro Ile Pro Ser Met Asp Leu His Glu Leu Glu Ser
 260 265 270
 Ile Val Glu Asp Ala Thr Ser Asp Leu Gly Tyr His Glu Ile Pro Glu
 275 280 285
 Asp Pro Leu Val Ala Glu Glu Tyr Tyr Ala Asp Ala Phe Asp Ser Tyr
 290 295 300
 Cys Val Glu Ser Asp Glu Glu Glu Glu Glu Ile Ala Leu Glu Arg Pro
 305 310 315 320
 Glu Lys Glu Ile Arg Asn Glu Gly Ser Gln Pro Ala Tyr Arg Thr Asn
 325 330 335
 Gln Gln Asp Ser Asp Ile Glu Ala Leu Ala Arg Cys Leu Glu Asn Val
 340 345 350
 Leu Gly Cys Thr Ser Leu Asp Thr Lys Thr Ile Thr Thr Met Ala Glu
 355 360 365
 Asp Met Ser Pro Gly Pro Pro Ile Phe Asn Ser Val Met Ala Arg Thr
 370 375 380
 Lys Met Lys Arg Met Arg Glu Ser Ala Met Gln Lys Leu Gly Thr Glu
 385 390 395 400
 Val Phe Glu Glu Val Tyr Asn Tyr Leu Lys Arg Ala Arg His Gln Asn
 405 410 415
 Ala Ser Glu Ala Glu Ile Arg Glu Cys Leu Glu Lys Val Val Pro Gln
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 Ala Ser Asp Cys Phe Glu Val Asp Gln Leu Leu Tyr Phe Glu Glu Gln
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<210> 5
 <211> 260
 <212> PRT
 <213> Human

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 35 40 45
 Ala Gln Leu Leu Ser Gln Leu Lys His Pro Asn Ile Val Thr Tyr Lys
 50 55 60
 Glu Ser Trp Glu Gly Gly Asp Gly Leu Leu Tyr Ile Val Met Gly Phe
 65 70 75 80
 Cys Glu Gly Gly Asp Leu Tyr Arg Lys Leu Lys Glu Gln Lys Gly Gln
 85 90 95
 Leu Leu Pro Glu Asn Gln Val Val Glu Trp Phe Val Gln Ile Ala Met
 100 105 110
 Ala Leu Gln Tyr Leu His Glu Lys His Ile Leu His Arg Asp Leu Lys
 115 120 125
 Thr Gln Asn Val Phe Leu Thr Arg Thr Asn Ile Ile Lys Val Gly Asp
 130 135 140
 Leu Gly Ile Ala Arg Val Leu Glu Asn His Cys Asp Met Ala Ser Thr

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Leu	Ile	Gly	Thr	Pro	Tyr	Tyr	Met	Ser	Pro	Glu	Leu	Phe	Ser	Asn	Lys
		165		170		175									
Pro	Tyr	Asn	Tyr	Lys	Ser	Asp	Val	Trp	Ala	Leu	Gly	Cys	Cys	Val	Tyr
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Glu	Met	Ala	Thr	Leu	Lys	His	Ala	Phe	Asn	Ala	Lys	Asp	Met	Asn	Ser
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Leu	Val	Tyr	Arg	Ile	Ile	Glu	Gly	Lys	Leu	Pro	Ala	Met	Pro	Arg	Asp
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Tyr	Ser	Pro	Glu	Leu	Ala	Glu	Leu	Ile	Arg	Thr	Met	Leu	Ser	Lys	Arg
		225		230		235									
Pro	Glu	Glu	Arg	Pro	Ser	Val	Arg	Ser	Ile	Leu	Arg	Gln	Pro	Tyr	Ile
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Lys	Arg	Gln	Ile												
		260													

<210> 6
 <211> 416
 <212> PRT
 <213> Mus musculus

E' cont.

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35 40 45
Ala Gln Leu Leu Ser Gln Leu Lys His Pro Asn Ile Val Thr Tyr Lys
50 55 60
Glu Ser Trp Glu Gly Gly Asp Gly Leu Leu Tyr Ile Val Met Gly Phe
65 70 75 80
Cys Glu Gly Gly Asp Leu Tyr Arg Lys Leu Lys Glu Gln Lys Gly Gln
85 90 95
Leu Leu Pro Glu Ser Gln Val Val Glu Trp Phe Val Gln Ile Ala Met
100 105 110
Ala Leu Gln Tyr Leu His Glu Lys His Ile Leu His Arg Asp Leu Lys
115 120 125
Thr Gln Asn Val Phe Leu Thr Arg Thr Asn Ile Ile Lys Val Gly Asp
130 135 140
Leu Gly Ile Ala Arg Val Leu Glu Asn His Gly Asp Met Ala Ser Thr
145 150 155 160
Leu Ile Gly Thr Pro Tyr Tyr Met Ser Pro Glu Leu Phe Ser Asn Lys
165 170 175
Pro Tyr Asn Tyr Lys Ser Asp Val Trp Ala Leu Gly Cys Cys Val Tyr
180 185 190
Glu Met Ala Thr Leu Lys His Ala Phe Asn Ala Lys Asp Met Asn Ser
195 200 205
Leu Val Tyr Arg Ile Ile Glu Gly Lys Leu Pro Pro Met Pro Lys Val
210 215 220
Tyr Ser Thr Glu Leu Ala Glu Leu Ile Arg Thr Met Leu Ser Arg Arg
225 230 235 240
Pro Glu Glu Arg Pro Ser Val Arg Ser Ile Leu Arg Gln Pro Tyr Ile
245 250 255
Lys His His Ile Ser Leu Phe Leu Glu Ala Thr Lys Ala Lys Thr Ser
260 265 270

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Cys	Leu	Ser	Gln	Glu	Lys	Pro	Val	Asp	Ile	Gly	Pro	Leu	Arg	Ser	Pro
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Glu	Ser	Cys	Ala	Thr	Ile	Ser	Arg	Ile	Asn	Ile	Asp	Ile	Leu	Pro	Ala
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Gln	Glu	Lys	Glu	Arg	Leu	Gln	Gly	Asn	Thr	Lys	Ser	Ser	Asp	Gln	Pro
				405					410					415	

ε'
Encl.